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-Levi Sangma

INTRODUCTION:

This Project on Railway Management works with Adding, Modifying, Searching and Manipulating data and information that has been inputted.

The Main Aim of the Program is to Manage Data of a Railway Database efficiently and Searching for Train Number and getting back the details of it.

This Program can be utilized by any Railway Company for convenient management of Trains.

SOURCE CODE:

import mysql.connector

from tabulate import tabulate

mycon=mysql.connector.connect(host="localhost",user="root",passwd="nps@123",database="jvl")

if mycon.is\_connected()==True:

print("Successfully connected.")

mycursor=mycon.cursor()

print("~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~")

print("|~ RAILWAY MANAGEMENT. ~| ")

print("~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~")

def addreco():

if mycon.is\_connected==False:

print("Connection Error!")

else:

print("~~~~~~~~~~~~~~~~~~~~~~~")

tno=int(input("Enter the Train number-:"))

tname=input("Enter the Train name-:")

S\_station=input("Enter the name of the Starting station-:")

T\_station=input("Enter the name of the Target station:")

T\_type=input("Enter the Type of train:")

D\_cover=int(input("Enter the Total distance to be covered:"))

T\_d\_w=str(input("Enter the Active days:"))

A\_time=str(input("Enter the Arrival time of the train:"))

D\_time=str(input("Enter the Departure time of the train:"))

Halt\_time=str(input("Enter the Halt time of the train:"))

query="insert into m\_train values({},'{}','{}','{}','{}',{},'{}','{}','{}','{}')".format(tno,tname,S\_station,T\_station,T\_type,D\_cover,T\_d\_w,A\_time,D\_time,Halt\_time)

mycursor.execute(query)

mycon.commit()

print("\n ## 𝑅𝐸𝒞𝒪𝑅𝒟 𝒜𝒟𝒟𝐸𝒟 𝒮𝒰𝒞𝒞𝐸𝒮𝒮𝐹𝒰𝐿𝐿𝒴!")

def dispreco():

mycon=mysql.connector.connect(host="localhost",user="root",passwd="nps@123",database="jvl")

if mycon.is\_connected()==False:

print("Connection Error!")

else:

mycursor=mycon.cursor()

query=("select \* from m\_train")

mycursor.execute(query)

mydata=mycursor.fetchall()

print("~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~")

print('%10s'%"TrainNumber",'%10s'%"TrainName",'%10s'%"StartingStation",'%10s'%"TargetStation",'%10s'%"TrainType"'%10s'%"DistanceCovered",'%10s'%"ActiveDays",'%10s'%"ArrivalTime",'%10s'%"DepartureTime",'%10s'%"HaltTime")

print("~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~")

count=mycursor.rowcount

for row in mydata:

print('%5s' % row[0],'%16s'%row[1],'%16s'%row[2],'%16s'%row[3],'%16s' % row[4],'%16s'%row[5],'%16s'%row[6],'%16s'%row[7],'%16s'%row[8],'%16s'%row[9])

def dispreco2():

mycon=mysql.connector.connect(host="localhost",user="root",passwd="nps@123",database="jvl")

if mycon.is\_connected()==False:

print("Connection Error!")

else:

mycursor=mycon.cursor()

query=("select \* from m\_train")

mycursor.execute(query)

mydata=mycursor.fetchall()

header=["Train Number","Train Name","Starting Station","Target Station","Train Type","Distance Covered","Active Days","Arrival Time","Departure Time","HaltTime"]

tab=[]

for rec in mydata:

tab.append(rec)

print(tabulate(tab,header,tablefmt="github",numalign="right"))

def modifyreco():

mycon=mysql.connector.connect(host="localhost",user="root",passwd="nps@123",database="jvl")

if mycon.is\_connected()==False:

print("Connection Error!")

else:

mycursor=mycon.cursor()

tno=int(input("Enter the train number for searching:"))

query="select \* from m\_train where tno="+str(tno)

mycursor.execute(query)

mydata=mycursor.fetchone()

if mydata!=None:

print(mydata)

a=input("Enter the new trainname:")

b=int(input("Enter the new train number:"))

c=input("Enter the new starting station:")

d=input("Enter the new destination station:")

e=input("Enter the type of train to be modified into:")

f=int(input("Enter the new distance to be covered:"))

g=input("Enter the new active days:")

h=str(input("Enter the new arrival time:"))

i=str(input("Enter the new departure time:"))

j=str(input("Enter the new halt time:"))

query=("update m\_train set Tname='{}',Tno={},S\_station='{}',T\_station='{}',T\_type='{}',D\_cover={},T\_d\_w='{}',Arrival\_time='{}',Departure\_time='{}',Halt\_time='{}' where Tno={}").format(a,b,c,d,e,f,g,h,i,j,tno)

mycursor.execute(query)

mycon.commit()

print("Record modified")

else:

print("Record not found")

def delreco():

mycon=mysql.connector.connect(host="localhost",user="root",passwd="nps@123",database="jvl")

if mycon.is\_connected==False:

print("Connection Error!")

else:

print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*DELETE TRAIN NUMBER \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

mycursor=mycon.cursor()

cno=int(input("Enter the train number for deleting:"))

query="select \* from m\_train where Tno="+str(cno)

mycursor.execute(query)

mydata=mycursor.fetchone()

if mydata!=None:

print(mydata)

ans=input("Do you want to delete? (Press Y if you want to delete else press N)")

if ans=='Y' or ans=='y':

query="Delete from m\_train where Tno="+str(cno)

mycursor.execute(query)

mycon.commit()

print("Record has been deleted successfully.")

else:

print("Record not deleted.")

else:

print("Record not found")

def searchreco():

mycon=mysql.connector.connect(host="localhost",user="root",passwd="nps@123",database="jvl")

if mycon.is\_connected()==False:

print("Error in connection")

else:

mycursor=mycon.cursor()

print("~~~~~~~~~~~~SEARCH TRAIN NAME/TRAIN NUMBER~~~~~~~~~~~~ ")

print(" Enter train number to get the train details attached to it")

tno=int(input("Enter the train number for searching:"))

print("The train details attached with the train number you have searched for is:")

query="select \* from m\_train where tno="+str(tno)

mycursor.execute(query)

mydata=mycursor.fetchone()

count=mycursor.rowcount

if mydata!=None:

print(mydata)

while True:

print("~~~~~~~~~~~~~~~")

print(" Menu")

print("~~~~~~~~~~~~~~~")

print("1. Data to be added:")

print("2.Data to be modified:")

print("3. Data to be deleted:")

print("4. Data to searched:")

print("5. Data to be displayed:")

print("0. Unavailable Data")

ch=int(input("Enter your choice:"))

if ch==1:

addreco()

if ch==2:

modifyreco()

if ch==3:

delreco()

if ch==4:

searchreco()

if ch==5:

dispreco()

elif ch==0:

print("Thankyou!!")

break

BIBLIOGRAPHY

Sumita Arora-

Computer Science With Python



